

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P841219

Luminaire Tested: **ARCH4-150-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15101 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

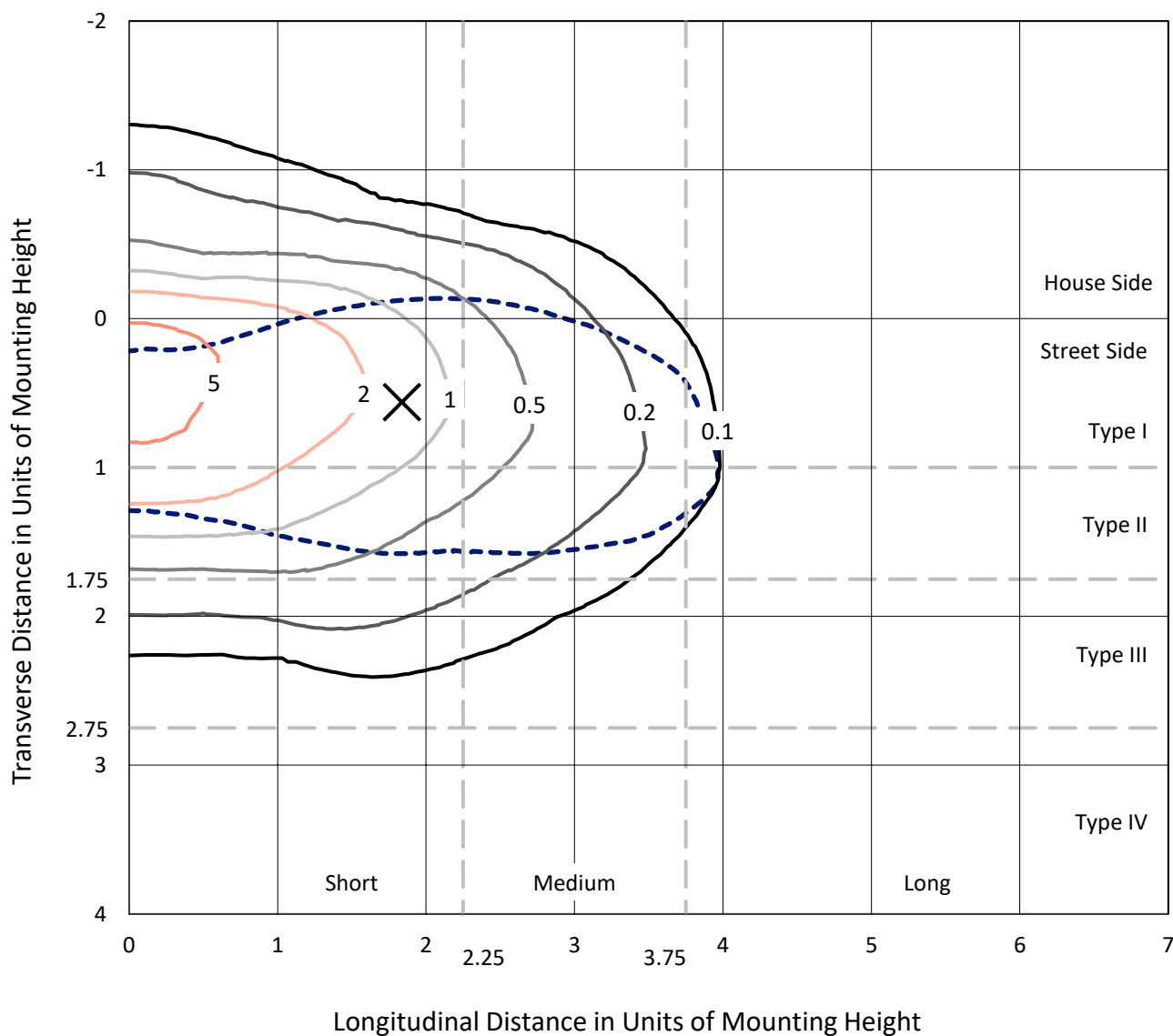
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

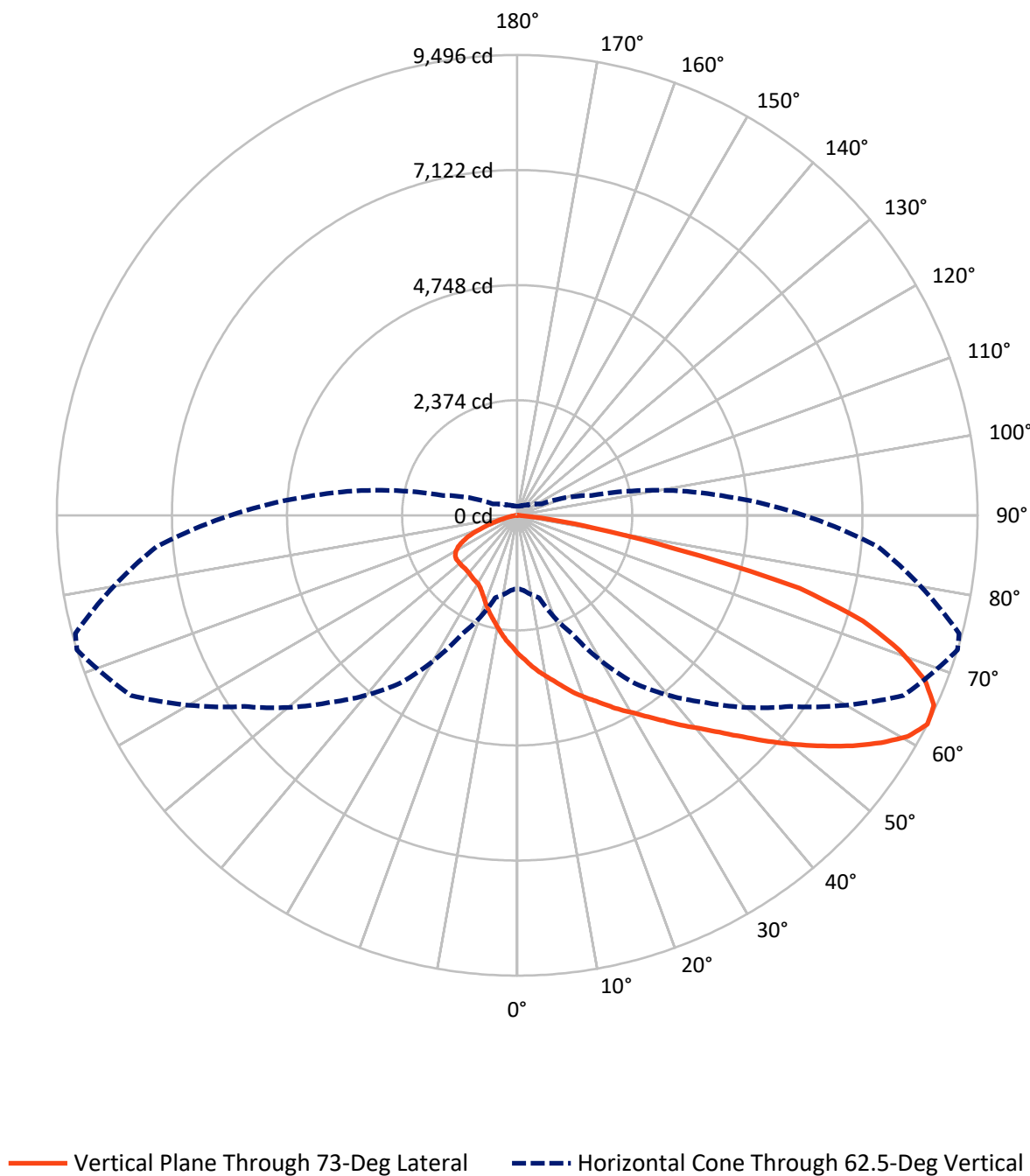
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2340.9	0.0	2340.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12760.1	0.0	12760.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	15101.0	0.0	15101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.2	1.8
10°-20°	833.6	5.5
20°-30°	1387.5	9.2
30°-40°	2093.5	13.9
40°-50°	2926.1	19.4
50°-60°	3232.1	21.4
60°-70°	2815.6	18.6
70°-80°	1422.3	9.4
80°-90°	114.2	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15101.0	100.0
0°-180°	15101.0	100.0

Coefficient of Utilization



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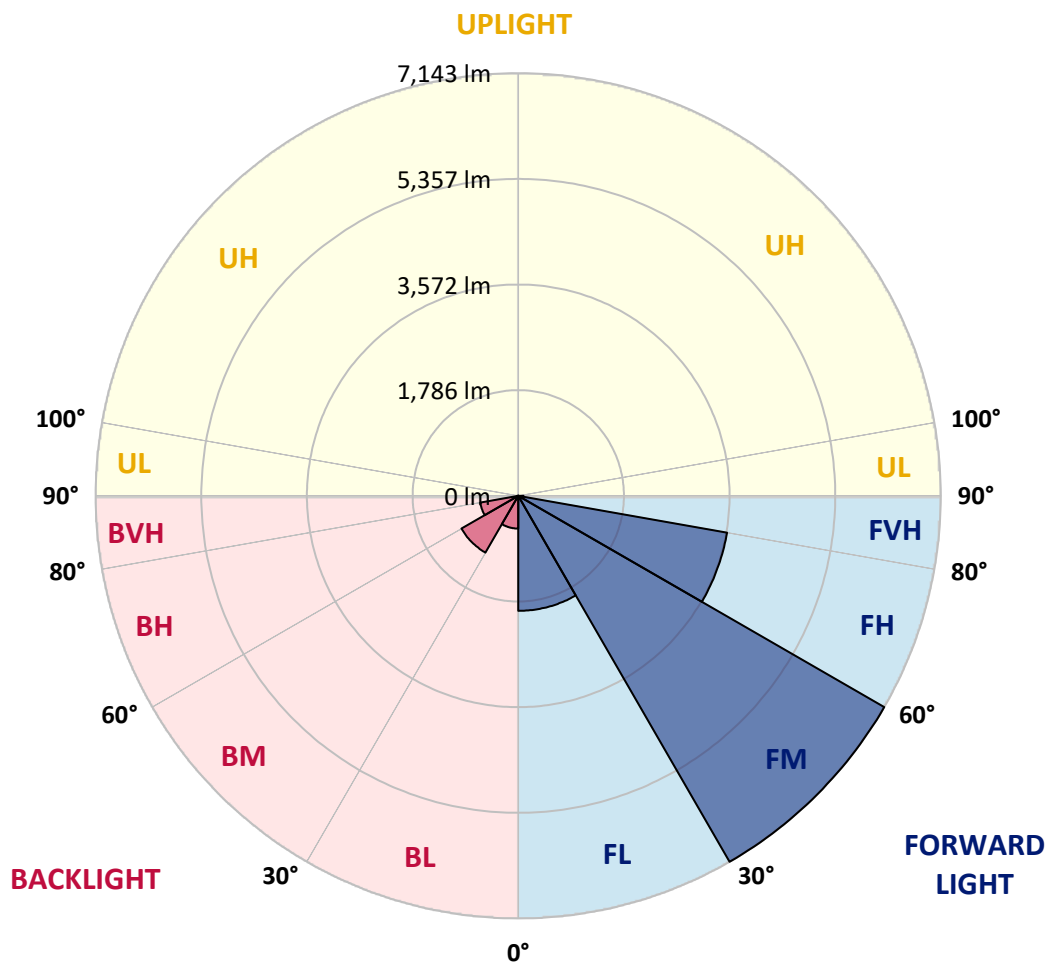
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1944.0	12.9			
FM	(30°-60°)	7143.3	47.3			
FH	(60°-80°)	3584.5	23.7			G2/5000
FVH	(80°-90°)	88.3	0.6			G1/100
BL	(0°-30°)	553.3	3.7	B2/1000		
BM	(30°-60°)	1108.4	7.3	B2/2500		
BH	(60°-80°)	653.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	25.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4
2.5°	3254.3	3290.5	3270.7	3283.9	3218.1	3175.3	3125.9	3030.5	2977.9	2971.3	2908.8
5°	3731.4	3770.9	3738.0	3728.1	3612.9	3514.2	3402.3	3234.5	3122.6	3102.9	2964.7
7.5°	4208.5	4244.7	4205.2	4175.6	4020.9	3846.5	3682.0	3435.2	3260.8	3227.9	3010.8
10°	4544.1	4577.0	4547.4	4517.8	4356.6	4178.9	3945.3	3622.8	3385.9	3333.2	3040.4
12.5°	4797.5	4817.2	4804.1	4777.7	4626.4	4435.5	4211.8	3833.4	3527.4	3461.6	3086.4
15°	5004.8	5037.7	5021.2	5001.5	4856.7	4665.9	4452.0	4053.8	3691.9	3609.6	3155.5
17.5°	5143.0	5166.0	5169.3	5169.3	5041.0	4853.4	4646.1	4254.6	3856.4	3751.1	3221.4
20°	5205.5	5231.8	5248.3	5274.6	5169.3	5008.1	4797.5	4425.7	4011.1	3892.6	3283.9
22.5°	5235.1	5258.1	5300.9	5360.2	5274.6	5139.7	4945.6	4583.6	4165.7	4040.7	3356.3
25°	5258.1	5287.8	5350.3	5462.2	5402.9	5287.8	5119.9	4764.6	4350.0	4221.7	3461.6
27.5°	5320.7	5356.9	5416.1	5551.0	5478.6	5422.7	5304.2	4958.7	4544.1	4412.5	3589.9
30°	5537.8	5567.5	5564.2	5649.7	5560.9	5544.4	5462.2	5146.3	4731.7	4600.1	3741.2
32.5°	5932.7	5962.3	5889.9	5857.0	5662.9	5666.2	5633.3	5347.0	4955.4	4820.5	3915.6
35°	6357.2	6390.1	6294.6	6238.7	5912.9	5817.5	5834.0	5597.1	5205.5	5070.6	4132.8
37.5°	6735.6	6775.0	6692.8	6610.5	6281.5	6061.0	6057.7	5876.8	5491.8	5353.6	4373.0
40°	6942.9	6988.9	7038.3	6992.2	6646.7	6403.2	6297.9	6163.0	5774.8	5633.3	4633.0
42.5°	7041.6	7169.9	7258.7	7229.1	6946.2	6699.4	6574.3	6462.5	6120.2	5982.0	4942.3
45°	6765.2	6768.5	6956.0	7117.3	7064.6	6900.1	6877.1	6798.1	6515.1	6383.5	5291.1
47.5°	6419.7	6393.4	6525.0	6811.2	6959.3	7002.1	7137.0	7169.9	6965.9	6834.3	5646.4
50°	5590.5	5606.9	6034.7	6446.0	6735.6	7012.0	7321.3	7551.6	7429.8	7304.8	6021.5
52.5°	4547.4	4586.9	5077.2	5982.0	6439.4	6913.2	7429.8	7933.3	7903.7	7785.2	6396.6
55°	3645.8	3708.3	4228.2	5208.8	6061.0	6692.8	7475.9	8282.1	8394.0	8285.4	6765.2
57.5°	2787.0	2852.8	3290.5	4297.3	5577.3	6334.1	7443.0	8588.1	8851.3	8782.2	7104.1
60°	2099.3	2165.1	2444.8	3484.6	4971.9	5932.7	7278.5	8788.8	9262.6	9190.2	7350.9
62.5°	1503.7	1556.4	1763.7	2711.3	4234.8	5455.6	6873.8	8792.1	9496.3	9437.0	7469.3
65°	1082.6	1082.6	1250.4	1934.8	3543.8	4883.0	6261.7	8387.4	9446.9	9430.4	7387.1
67.5°	779.8	786.4	921.3	1352.4	2826.5	4188.8	5468.7	7666.8	9065.2	9147.5	7090.9
70°	552.8	569.2	631.8	944.4	2135.5	3306.9	4619.8	6722.4	8377.5	8522.3	6518.4
72.5°	427.8	437.6	480.4	658.1	1559.7	2458.0	3682.0	5669.5	7459.5	7624.0	5738.6
75°	329.0	338.9	371.8	483.7	1118.8	1724.2	2615.9	4399.3	6015.0	6307.8	4609.9
77.5°	240.2	253.4	276.4	352.1	651.5	1095.7	1586.0	2474.4	3320.1	3458.3	2415.2
80°	111.9	128.3	161.2	227.0	352.1	516.6	562.7	954.2	1595.9	1668.3	1309.6
82.5°	62.5	79.0	92.1	138.2	177.7	184.3	190.8	240.2	602.2	664.7	549.5
85°	29.6	39.5	42.8	59.2	59.2	52.6	62.5	46.1	98.7	118.5	115.2
87.5°	0.0	3.3	6.6	16.5	13.2	9.9	9.9	9.9	9.9	13.2	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4
2.5°	2879.1	2836.4	2737.7	2652.1	2596.2	2546.8	2481.0	2451.4	2398.7	2408.6	2379.0
5°	2895.6	2816.6	2642.2	2481.0	2362.5	2257.3	2142.1	2076.3	2003.9	1997.3	1974.3
7.5°	2905.5	2783.7	2533.7	2306.6	2125.6	1964.4	1809.8	1724.2	1635.4	1615.6	1595.9
10°	2895.6	2734.4	2421.8	2125.6	1885.4	1684.7	1510.3	1401.7	1309.6	1286.6	1266.8
12.5°	2905.5	2708.0	2316.5	1957.8	1671.6	1444.5	1247.1	1135.2	1049.7	1026.6	1013.5
15°	2928.5	2691.6	2227.6	1806.5	1480.7	1227.3	1033.2	937.8	868.7	845.6	839.1
17.5°	2948.2	2675.1	2132.2	1658.4	1289.9	1036.5	868.7	789.7	730.5	707.4	700.9
20°	2974.6	2652.1	2036.8	1516.9	1122.0	885.1	737.1	668.0	621.9	605.4	602.2
22.5°	2997.6	2635.7	1948.0	1375.4	967.4	763.4	638.3	582.4	549.5	533.1	533.1
25°	3056.8	2642.2	1872.3	1243.8	852.2	668.0	562.7	519.9	493.6	483.7	483.7
27.5°	3125.9	2668.6	1813.0	1131.9	753.5	595.6	510.0	473.8	460.7	447.5	450.8
30°	3224.6	2721.2	1773.6	1039.8	681.1	539.6	467.2	440.9	427.8	424.5	424.5
32.5°	3349.7	2806.8	1770.3	980.6	628.5	496.9	437.6	414.6	408.0	404.7	404.7
35°	3497.8	2882.4	1750.5	954.2	595.6	467.2	414.6	398.1	394.9	394.9	394.9
37.5°	3675.4	3007.5	1737.4	918.0	579.1	450.8	398.1	385.0	385.0	385.0	385.0
40°	3859.7	3109.5	1717.6	885.1	572.5	440.9	388.3	371.8	371.8	371.8	371.8
42.5°	4080.2	3257.6	1711.0	868.7	562.7	434.3	375.1	355.4	358.7	358.7	362.0
45°	4346.7	3425.4	1707.7	852.2	559.4	427.8	362.0	338.9	342.2	338.9	338.9
47.5°	4616.5	3619.5	1717.6	842.4	556.1	421.2	352.1	322.5	322.5	319.2	319.2
50°	4899.5	3797.2	1724.2	832.5	549.5	408.0	335.6	309.3	302.7	296.1	299.4
52.5°	5166.0	3961.7	1727.5	816.0	529.8	388.3	322.5	292.9	283.0	273.1	276.4
55°	5432.5	4119.7	1734.1	796.3	503.4	368.5	306.0	276.4	263.2	250.1	250.1
57.5°	5672.7	4257.9	1717.6	746.9	473.8	348.8	289.6	256.7	236.9	223.8	223.8
60°	5837.3	4356.6	1668.3	674.5	434.3	325.8	273.1	236.9	213.9	204.0	204.0
62.5°	5916.2	4373.0	1579.4	556.1	385.0	302.7	253.4	217.2	197.4	190.8	190.8
65°	5840.6	4300.6	1441.2	417.9	332.3	276.4	233.6	200.7	181.0	164.5	164.5
67.5°	5577.3	4096.6	1250.4	315.9	283.0	250.1	213.9	184.3	161.2	148.1	148.1
70°	5047.6	3672.1	967.4	253.4	240.2	217.2	194.1	164.5	144.8	128.3	128.3
72.5°	4353.3	3112.8	681.1	204.0	204.0	184.3	164.5	144.8	125.0	111.9	111.9
75°	3339.8	2303.3	457.4	164.5	167.8	154.7	134.9	118.5	105.3	95.4	95.4
77.5°	1822.9	1138.5	279.7	121.7	125.0	118.5	105.3	95.4	88.8	79.0	79.0
80°	885.1	500.1	161.2	85.6	88.8	85.6	79.0	69.1	69.1	62.5	62.5
82.5°	371.8	187.6	85.6	59.2	59.2	52.6	49.4	49.4	49.4	46.1	46.1
85°	92.1	36.2	36.2	32.9	32.9	32.9	29.6	29.6	29.6	23.0	26.3
87.5°	13.2	13.2	13.2	13.2	13.2	13.2	9.9	3.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)